

CLAIMS

1. A heat-embossed, fastening non-woven fabric comprising, as at least one component, core-sheath or side-by-side heat-fusing composite staple fibers
5 having a low-melting polymer component on a fiber surface, wherein a front surface of the non-woven fabric comprises a non-embossed portion and an embossed portion, the non-embossed portion being a large number of regularly or irregularly dispersed convex island regions upwardly projecting from the front surface of the non-woven fabric, the embossed portion being a sea region
10 surrounding each island region, and at least one end of the composite staple fibers in the non-embossed portion that constitute the convex island regions being press- and heat-anchored at the embossed portion that constitute the sea region.
2. The non-woven fabric according to claim 1, having a basis weight of 20 to
15 100 g/m² and a bulk density of 0.01 to 0.10 g/cm³.
3. The non-woven fabric according to claim 1, wherein 80% of the heat-fusing staple fibers constituting the non-woven fabric are core-sheath or side-by-side composite staple fibers having the number of crimp of 10 to 20 crimps/inch and a percentage crimp of 5 to 20%.
- 20 4. The non-woven fabric according to claim 1, wherein 100% of the heat-fusing staple fibers constituting the non-woven fabric are core-sheath or side-by-side composite staple fibers having the number of crimp of 10 to 20 crimps/inch and a percentage crimp of 5 to 20%.
5. The non-woven fabric according to claim 1, wherein a height of each
25 convex island region from a surface of the sea region surrounding the convex island regions to a top of the convex island regions is 0.3 to 3 mm.
6. The non-woven fabric according to claim 1, wherein a base portion of each convex island region has an area corresponding to an area-based equivalent circle having a mean diameter of 2 to 8 mm.
- 30 7. The non-woven fabric according to claim 1, wherein a distance between

adjacent island regions is 0.5 to 5.0 mm.

8. The non-woven fabric according to claim 1, wherein the number of the island regions is 80 to 800 per 100 cm² of a surface of the non-woven fabric.

9. A process of producing a fastening non-woven fabric, comprising heat-
5 embossing a web composed of a sliver of core-sheath or side-by-side heat-fusing
 composite staple fibers thereby to cause a non-embossed portion to form a large
 number of regularly or irregularly dispersed convex island regions upwardly
 projected from a front surface of the web and allow an embossed portion to form
 a sea region surrounding each of the island regions, wherein the dimensions of
10 the non-embossed portion and the embossed portion are adjusted so as to make
 a maximum diameter of the non-embossed region dispersed as the island
 regions shorter than a sliver length, and wherein at least one end of the
 composite staple fibers constituting the non-embossed island regions is heat-
 anchored at the embossed sea region.

10. A loop fastener member for use in a surface fastener, which is made of the
non-woven fabric according to any one of claims 1 to 8.